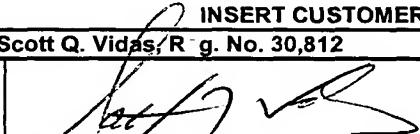


<b>Vidas, Arrett &amp; Steinkraus Utility Patent Application Transmittal</b>		Atty. Docket No	S40.2-11278-US01
		First Inventor	KIM, Ig Saeng, et al.
		Title:	Heat Driven Acoustic Orifice Type Pulse Tube Cryocooler
		Express Mail Label No.	EL 992794581 US
<b>Application Elements</b>		Address To:	Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450
1. <input checked="" type="checkbox"/>	Fee Transmittal Form <input checked="" type="checkbox"/> Check Included		Pages 1
2. <input checked="" type="checkbox"/>	Applicant claims small entity status		
3. <input checked="" type="checkbox"/>	Specification (including 0 pg cover sheet, 14 pg description, 3 pg claims and 1 pg abstract)		Pages 18
4. <input checked="" type="checkbox"/>	Drawings		Pages 6
5. <input type="checkbox"/>	Oath or Declaration		Pages
	a. <input type="checkbox"/> Newly executed (original or copy)		
	b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d) (for continuation/divisional with Box 19 completed)		
	i. <input type="checkbox"/> Deletion of Inventor(s) – signed statement attached deleting inventors named in the prior application		Pages
6. <input checked="" type="checkbox"/>	Application Data Sheet		Pages 5
7. <input type="checkbox"/>	Assignment Papers (cover sheet & documents and check) <input type="checkbox"/> Previously recorded on , Reel , Frames		Pages
8. <input type="checkbox"/>	Power of Attorney		Pages
	<input type="checkbox"/> 37 C.F.R. 3.73(b) Statement (when there is an assignee)		Pages
9. <input type="checkbox"/>	English Translation Document		Pages
10. <input type="checkbox"/>	Information Disclosure Statement <input type="checkbox"/> Copies of Citations ( references)		Pages
11. <input type="checkbox"/>	Preliminary Amendment		Pages
12. <input checked="" type="checkbox"/>	Return Receipt Postcard		Pages 1
13. <input type="checkbox"/>	Certified Copy of Priority Document		Pages
14. <input type="checkbox"/>	Nonpublication Request		Pages
15. <input checked="" type="checkbox"/>	Constructive Petition		Pages 1
16. <input type="checkbox"/>	Limited Authorization		Pages
17. <input checked="" type="checkbox"/>	VAS Utility Patent Application Transmittal		Pages 1
18. <input type="checkbox"/>	Other		Pages
19. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment or in an Application Data Sheet			
<input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part Of prior application no.			
Prior Application Information: Examiner Group Art Unit			
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.			
20. TOTAL NUMBER OF PAGES 33			
21. CORRESPONDENCE ADDRESS			
490			
INSERT CUSTOMER NUMBER LABEL ABOVE			
Name	Scott Q. Vidas, R g. No. 30,812		
Signature			Date 8/18/2003

03917 U.S. PTO  
10/643239  
08/18/03

17638 U.S. PTO  
08/18/03

# FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 750.00)

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None  
☐ Deposit Account:

Deposit Account Number: 22-0350

Deposit Account Name: Vidas, Arrett & Steinkraus

The Commissioner is authorized to: (check all that apply)

☐ Charge the fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
1001	750	2001	375	Utility filing fee	\$750.00
1002	330	2002	165	Design filing fee	---
1003	520	2003	260	Plant filing fee	---
1004	750	2004	375	Reissue filing fee	---
1005	160	2005	80	Provisional filing fee	---

SUBTOTAL (1) (\$ 750.00)

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
11	-20** =	X	0
Independent Claims	1	-3** =	0
Multiple Dependent			

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ -0-

\*\* or number previously paid, if greater; For Reissues, see above

## Complete if Known

Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	KIM, Ig Samg, et al.
Examiner Name	Not Yet Assigned
Art Unit	Not Yet Assigned
Attorney Docket No.	S40.2-11278-US01

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge-late filing fee oath	---
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	---
1053	130	1053	130	Non-English specification	---
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	---
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	---
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	---
1251	110	2251	55	Extension for reply within first month	---
1252	410	2252	205	Extension for reply within second month	---
1253	930	2253	465	Extension for reply within third month	---
1254	1,450	2254	725	Extension for reply within fourth month	---
1255	1,970	2255	985	Extension for reply within fifth month	---
1401	320	2401	160	Notice of Appeal	---
1402	320	2402	160	Filing a brief in support of an appeal	---
1403	280	2403	140	Request for oral hearing	---
1451	1,510	1451	1,510	Petition to institute a public use proceeding	---
1452	110	2452	55	Petition to revive - unavoidable	---
1453	1,300	2453	650	Petition to revive - unintentional	---
1501	1,300	2501	650	Utility issue fee (or reissue)	---
1502	470	2502	235	Design issue fee	---
1503	630	2503	315	Plant issue fee	---
1460	130	1460	130	Petitions to the Commissioner	---
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	---
1806	180	1806	180	Submission of Information Disclosure Stmt	---
8021	40	8021	40	Recording of each patent assignment per property (times number of properties)	---
1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	---
1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))	---
1801	750	2801	375	Request for Continued Examination (RCE)	---
1802	900	1802	900	Request for expedited examination of a design application	---
Other fee (specify) _____					
*Reduced by Basic Filing Fee Paid					
SUBTOTAL (3)					(\$)

## SUBMITTED BY

Name (Print/Type)	Scott Q. Vidas	Registration No.	30,812	Telephone	952-563-3000
Signature		Attorney/Agent		Date	08/18/2003

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

<b>In re Application of:</b>	KIM, Ig Saeng, et al.
<b>Application No.:</b>	Not Yet Assigned
<b>Filed:</b>	Concurrently Herewith
<b>For:</b>	Heat Driven Acoustic Orifice Type Pulse Tube Cryocooler
<b>Examiner:</b>	Not Yet Assigned
<b>Group Art Unit:</b>	Not Yet Assigned

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Docket No.: S40.2-11278-US01

**CONSTRUCTIVE PETITION FOR EXTENSION OF TIME AND FEE  
AUTHORIZATION PURSUANT TO 37 C.F.R. §1.136(a)(3)**

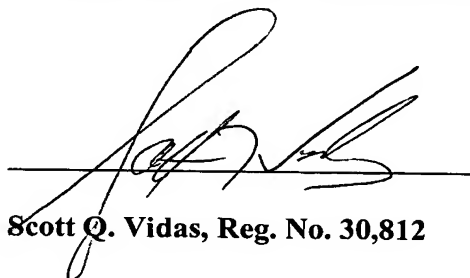
Applicant hereby requests that the United States Patent and Trademark Office treat any concurrent or future reply requiring a petition for an extension of time pursuant to §1.136 for its timely submission as incorporating therein a petition for an extension of time for the appropriate length of time.

Applicant authorizes the Commissioner of Patents and Trademarks to charge all required extension of time fees that have not otherwise been paid to Deposit Account No. 22-0350.

Respectfully submitted,  
VIDAS, ARRETT & STEINKRAUS

Date: August 18, 2003

By:



Scott Q. Vidas, Reg. No. 30,812

6109 Blue Circle Drive, Suite 2000  
Minnetonka, MN 55343-9185  
Telephone: (952) 563-3000  
Facsimile: (952) 563-3001